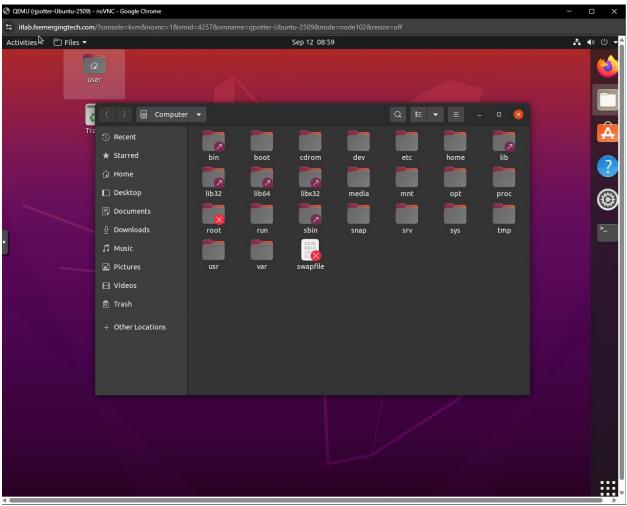
1. Explain in writing the type of kernel and multitasking used in Linux

Linux uses a Monolithic kernel, which communicates with all the hardware and software while controlling the system's resources. It relies on drivers to interact with hardware and uses other applications to complete tasks for the user. Linux is a preemptive multitasking operating system, meaning it can manage and execute multiple processes and threads concurrently. It achieves multitasking through a technique called time-slicing, where the kernel's scheduler rapidly switches the CPU's attention, allocating small timeslots to each process. This is done in a round-robin manner, ensuring every process gets a turn before any task receives a second turn. On multi-core systems, Linux can run multiple threads simultaneously to increase performance.

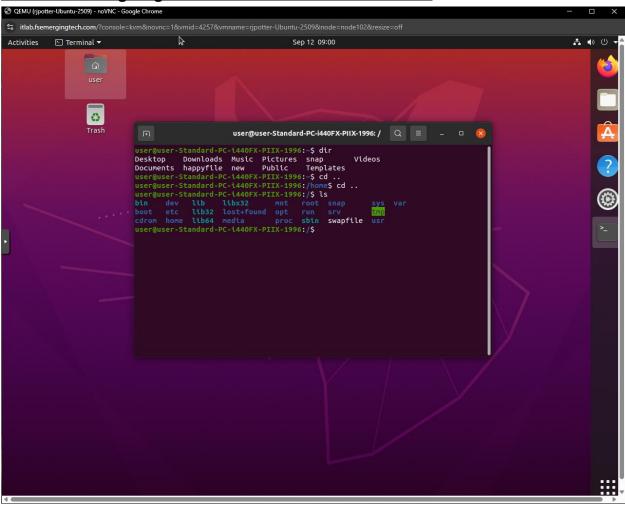
2. Explain in writing the differences and similarities between the GUI and the CLI

The main differences between the CLI and the GUI are that the CLI is text-based, while the GUI is graphical. This makes the GUI much more beginner-friendly, whereas the CLI requires more practice to become proficient. Some of the similarities are that both allow the user to issue commands to the computer and both provide access to the operating system's core functions, such as file management, running programs, and configuring system settings.

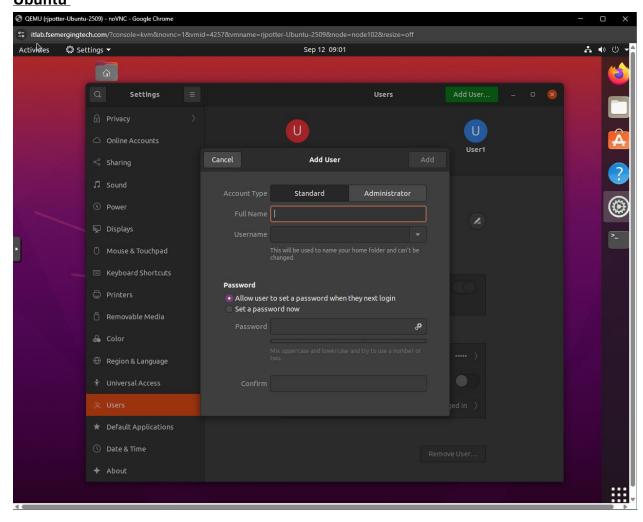
3. Screenshot navigating the file structure in the GUI in Ubuntu



4. Screenshot navigating the file structure in the CLI in Ubuntu

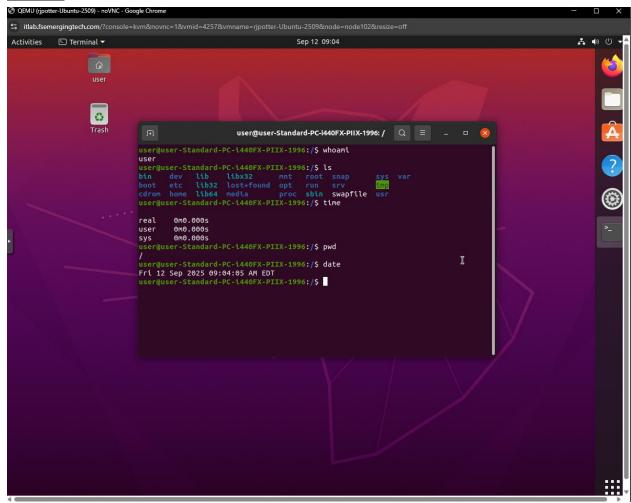


5. Screenshot how to create a standard user account in Ubuntu



6. Screenshot using 5 different commands in

<u>Ubuntu</u>



7. Screenshot how to use the *sudo* command in Ubuntu (Example where we need to use

sudo)

8. Screenshot how to install an application in Ubuntu (In the GUI or CLI)

